

CCW-500R – Reinforced Hot-Applied Liquid Waterproofing Membrane White Paper

Abstract

When a building needs waterproofing, many different technologies and application styles are available to help achieve protection from the damaging effects of water and moisture. These choices range from asphalt-based peel-and-stick membranes and bentonite clay panels to single- and multi-component fluid-applied systems. Regardless of what type of waterproofing system is used, it must ultimately protect the building from water migration and structure degradation.

Problem

The market today is calling for more products that are environmentally friendly yet provide superior, long-term performance. Many hot-applied, liquid waterproofing products are asphalt based and dependent on this non-renewable resource to perform adequately and meet building codes. Developing a solution that performs as well as or better than traditional liquid-applied waterproofing systems, yet contributes toward LEED® certification has been a challenge to manufacturers. Other considerations such as ease of installation and equipment required must be taken into consideration when developing improved, eco-friendly formulations.

Design

There is a demand for liquid waterproofing membranes throughout building construction that contribute toward LEED requirements, provide a quick cure and conform to ASTM standards. This membrane must also provide long-term performance and protection and be versatile enough to be used on a wide variety of substrates and conditions.

Solution

CCW-500R features a patent-pending, enhanced formulation that incorporates a special blend of renewable content comprised of 30% recycled content (classified “pre-consumer”). This formulation contributes toward LEED requirements in new building construction and features improved low-temperature flexibility and interply adhesion. Installation for this improved product remains the same, using existing accessories, methods and tools.

In addition to the environmental benefits, CCW-500R has enormous memory so that if it is stretched or pulled it quickly returns to its original form. Even when cooled to a temperature as low as -25°F for many weeks the product remained very flexible and was able to be bent repeatedly without failure. The material remains fluid until it reaches the solidification temperature and does not thicken as it cools, allowing for easier vertical applications.

This hot-applied, rubberized asphalt waterproofing system provides a monolithic membrane that is free of seams, adheres tenaciously to virtually any structural surface, is self-healing and features enhanced crack-bridging capability.

Conclusion

As the demand for improved performance and building green continue to spur new technologies that advance the waterproofing industry, CCW-500R is leading the way, offering superb performance and lasting protection. CCW-500R is the first of its kind to incorporate a patent-pending formulation of 30% recycled material to contribute toward LEED requirements, comply with state and local building codes and feature improved performance.